



**MARMARA UNIVERSITY
FACULTY OF ENGINEERING
ENVIRONMENTAL ENGINEERING DEPARTMENT**

**ENVE 497/498 ENGINEERING PROJECT
PROPOSAL FORM
FALL 2018**

Instructor : Dr. Kamil Erkan

Project Title : GEOTHERMAL ENERGY ASSESMENT OF MARMARA REGION USING PLAY FAIRWAY ANALYSIS

Proposal No. : *KamilErkan-1*

Number of Students : 1-3

Requirements (from students) : The student will need a PC/laptop to install and run the required software. There will be several single-day field trips for borehole temperature data collection.

Scope of the Project : Play fairway analysis is a method of integrating various types of geospatial data for determination of most favorable areas. The project aims combining various types of geospatial data (geothermal, geologic, hydrologic, etc.), and determining the most favorable areas for geothermal energy utilization in Marmara region.

Hardware/Software/Lab/Equipment Requirements :

Excel, SURFER (available at the instructor) software

Temperature logging tool

Development Plan :

1. Investigation of available geospatial data for Marmara region
2. Digitization/mapping of the data
3. Temperature data collection
4. Data integration using play fairway analysis
5. Preparation of a written report and oral presentation